

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:  
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UNITED STATES OF AMERICA

PCT

OCT 21 2005

M. Ryan  
JONES DAY

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year) 18/10/2005	
Applicant's or agent's file reference/ 6750-250-228	<b>FOR FURTHER ACTION</b> See paragraphs 1 and 4 below
International application No. PCT/US2005/003390	International filing date (day/month/year) 04/02/2005
Applicant EURO-CELTIQUE S.A.	Amend Prio to Pub 12/18/05 check U.S. IDS Refs 1/18/06. response to WRITTEN OPINION due 1/18/06

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35

**For more detailed instructions,** see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

**4. Reminders**

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



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NL-2280 HV Rijswijk  
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Authorized officer

Stefan Brell

## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

**The amendments must be made in the language in which the international application is to be published.**

#### What documents must/may accompany the amendments?

##### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

**The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.**

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2005/003390

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D489/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	COREY ET AL.: "New and highly effective method for the oxidation of primary and secondary alcohols to carbonyl compounds" J. AMER. CHEM. SOC., vol. 94, no. 21, 1972, pages 7586-7587, XP002333837	1-13
Y	cited in the application the whole document	14-114
A	US 6 013 796 A (HUANG ET AL) 11 January 2000 (2000-01-11) cited in the application column 3	115-119
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

18 July 2005

Date of mailing of the international search report

18. 10. 2005

Name and mailing address of the ISA

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NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
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Authorized officer

Grassi, D

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>XIONG, ZHI-XING; HUANG, NAN-PING; ZHONG, PING: "A selective and convenient oxidation of sulfides to sulfoxides with trichloroisocyanuric acid"  SYNTH. COMMUN.,  vol. 31, no. 2, 2001, page 245 - 248,  XP009050855  SCHEME 1: Preparation of compounds 3a and 3c,  page 246</p>	1
A	<p>ULF TILSTAM, HILMAR WEINMANN:  "TRICHLOROISOCYANURIC ACID: A SAFE AND EFFICIENT OXIDANT"  ORGANIC PROCESS RESEARCH &amp; DEVELOPMENT,  vol. 6, no. 4, 2002, page 384-393,  XP002334135  the whole document</p>	1-114
Y	<p>SHIN-ICHI OHSUGI, KIYOHARU NISHIDE, KEIJI OONO, KAZUNORI OKUYAMA, MASATO FUDESAKA, SUMIAKI KODAMA AND MANABU NODE: "New odorless method for the Corey-Kim and Swern oxidations utilizing dodecyl methyl sulfide (Dod-S-Me)"  TETRAHEDRON,  vol. 59, 2003, page 8393-8398, XP002334136  the whole document</p>	1-114
Y	<p>US 6 177 567 B1 (CHIU FANG-TING ET AL)  23 January 2001 (2001-01-23)  columns 9-10</p>	1-114

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2005/003390

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-37, 38-45 (part), 46, 47-65 (part), 66, 67-80(part), 81-84, 85-114 (part)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-37, 38-45 (part), 46, 47-65 (part), 66, 67-80 (part),  
81-84, 85-114 (part)

Compositions comprising trichloroisocyanuric acid and a compound of formula R1SR2 or the use thereof.  
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2. claims: 38-45(part ), 47-65 (part), 67-80 (part), 85-114 (part)

Compositions comprising a compound of formula (I), a chlorine-containing compound (not being trichloroisocyanuric acid) and a compound of formula R1SR2 or the use thereof.  
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3. claims: 115-119

Compounds of formula (III).  
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2005/003390

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6013796	A	11-01-2000	US	6008355 A	28-12-1999
			US	5922876 A	13-07-1999
			US	6008354 A	28-12-1999
			US	5952495 A	14-09-1999
			US	5948788 A	07-09-1999
			US	5869669 A	09-02-1999
US 6177567	B1	23-01-2001	AU	7384400 A	30-04-2001
			AU	7743700 A	30-04-2001
			CA	2387523 A1	26-04-2001
			JP	2004502637 T	29-01-2004
			MX	PA02003594 A	23-05-2003
			WO	0129047 A2	26-04-2001
			WO	0129048 A2	26-04-2001
			US	6262266 B1	17-07-2001